

NeXmedia 1302 Development Board

www.streaming-networks.com

A High Speed Standalone System with IDE, USB, and Ethernet Interfaces



Form Factor

Compact and Ideally suited for end-user products

Versatile user I/O

UART, ether, USB, JTAG, IDE, CVBS, SVideo

Customizable

Design provisions for enhancements and add-ons

OVERVIEW

Streaming Networks pioneered stand alone (SA) reference designs for TriMedia family of processors, in early 2000. Today, Streaming Networks maintains its lead by offering its next generation stand alone system, in the shape of a single board that houses the most commonly demanded interfaces like IDE, Ethernet, USB, UART, IIC buses. This is the most popular Nexperia based reference system available today in the market, populated with the latest PNX-1302 @200 Mhz, with SDRAM @166 MHz.

INTERFACES SUPPORTED

This single board system is first of its kind providing both IDE as well as Ethernet interfaces, thereby enabling realization of storage and communication based products readily. The USB based development environment, for standalone configuration makes development as easy as on a PC and furthermore, eliminates the need for a separate JTAG card.

PRODUCT DEVELOPMENT

This NeXmedia-1302 standalone board is very suitable for developing Digital Video Recorder, Personal Video Recorder and other similar systems like Video Conferencing based on POTS and LAN/WAN and for Video on Demand. The production ready applications can be burned onto onboard flash and system can be made flash bootable in a jiffy.

FORM FACTOR

This board has an appropriate form factor and feature set to be readily used to design a front panel and an enclosure for a security and surveillance or consumer electronic products. For development purposes, all required cables, connectors and power adapter are provided to hook up the board, video and audio sources and sinks alongwith storage media like HDD and CD-RW.

BOARD SUPPORT PACKAGE

The system comes with a CD containing Board Support Package and test software for all on board peripherals including USB, IDE and Ethernet as well as USB based development features like downloading, debugging etc.

KEY FEATURES

- 200 MHz PNX 1302, 16 MB SDRAM @ 166 MHz
- IDE interface for ATA/ATAPI devices
- LAN interface with 10/100 Mb/s Ethernet controller
- USB interface (slave mode) version 1.1
- RS-232 interface
- 8MB bootable Flash
- x86 compatible interface for peripheral devices
- Single channel S-Video Video input (PAL/NTSC)
- Dual channel CVBS Video input (PAL/NTSC)
- Single channel CVBS and S-Video video output
- Mono quad channel audio input
- Stereo single channel audio output
- Actuator inputs/outputs (8 channels each)
- Single channel IR receiver
- Real-Time Clock
- DAA interface header for softmodem
- Dual Power input support: 12V DC, Standard ATX

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